

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

See reverse side for additional information.

Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.
93-R-0434

CUSTOMER NO.
9193

FORM APPROVED
OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

UNIVERSITY OF CALIFORNIA, IRVINE
(b)(2)High, (b)(7)(F)
(949) 824-5796

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS(sites)

See Attached Listing

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS FORM 7023A)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs					
5. Cats			154		154
6. Guinea Pigs		17			17
7. Hamsters			143		143
8. Rabbits		286	267	39	592
9. Non-Human Primates					
10. Sheep					
11. Pigs			316		316
12. Other Farm Animals					
13. Other Animals					
Peromyscus	330				330
Gerbils	34		28		62

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

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NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

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Column E Explanation

USDA Registration number:	93-R-0434
Number of animals used in the study:	39
Species used in the study:	Rabbits

Explanation for the procedure producing pain and/or distress:

The rabbit eye is inoculated with *Herpes simplex*, type 1, (herpetic eye disease). This animal model studies the processes regulating the latency and recrudescence of ocular herpes infections. Human patients with ocular herpes infections rarely report pain, but rather some patients report discomfort. It is thought that this infection is generally pain free because the viral infection damages nerve endings of the cornea resulting in loss of sensation. Some rabbits in this study transiently develop clinical signs of disease (mild conjunctivitis, iritis and keratitis, etc.) without associated pain and/or distress as assessed by veterinary personnel. However, a small minority of infected rabbits (< 5%) show signs of irritation and may scratch at the skin around the orbit. In addition, <1 % of infected rabbits may progress on to further complications such as encephalitis and seizures. Such rabbits are euthanized immediately.

Scientific justification for why pain and/or distress could not be relieved and methods or means used to determine that pain and/or distress relief would interfere with test results:

- Topical drugs in the eye would interfere with the experimental infection and adversely affect the study results. Such treatment may actually enhance the infection rather than ameliorate it. In particular, the ability to accurately measure the amount of virus (the major experimental outcome) in the eye at different time points after infection would be compromised by standard medical therapies
- Alternatives searches using USDA approved databases were performed that validated the rabbit model and failed to identify alternative methodology or practices that would allow therapeutic intervention

Federal Regulations which require this procedure: N/A